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gtgc	etgt	cct	ttca	gaag	ac ti	tccg	gege	a cc		gca Ala						173
		gtc Val 10														221
Arg		cag Gln														269
gat Asp 40																317
gtg Val																365
cat His	gag Glu	gac Asp	atc Ile 75	gac Asp	acg Thr	tca Ser	gca Ala	gat Asp 80	gcc Ala	gtg Val	gag Glu	gac Asp	ctc Leu 85	act Thr	gag Glu	413
gcc Ala																461

		90				95					100				
_	_					_	aat Asn			_	_	_	_	_	509
_	_		_		_		aac Asn		_	_	_		_		557
							ccc Pro		-	_					605
							gag Glu 160								653
_						 	aac Asn	_			_	_	_		701
		_	_	_		_	gac Asp		_		_		_	_	749
			_	_	-		ccc Pro	_						_	797
	_		_				cag Gln	_			_	_	_	_	845
							aac Asn 240		_	_	_				893
	_			_	_	_	ctg Leu		_			_			941
							cag Gln								989
							atg Met								1037
							gag Glu								1085
							999 Gly 320								1133

	gag Glu				_			_		_		_	_	_	_	11	.81
_	cag Gln 345	_	_	_	_		_		_					_	~ ~	12	29
	cgc Arg															12	277
	gtt Val		_				_			_		_		_		13	25
	agt Ser															13	373
	gcc Ala															14	21
	tcg Ser 425	_	_		-		~	_						_		14	:69
	cgg Arg		_		_	_	_		_				_	~	_	15	17
	gca Ala															15	65
	cgc Arg															16	13
	cac His		-	_	_	_					-		~	_	~	16	61
	gcc Ala 505															17	09
	gtg Val															17	57
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<213> Homo sapiens

<400> 2

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Ser Asp Leu Ser Ser Arg Gln Asp Ala Glu Asn Ala Glu Ala Lys Leu 35 40

Arg Gly Leu Pro Gly Gln Leu Val Asp Ile Ala Cys Lys Val Cys Gln 50

Ala Tyr Leu Gly Gln Leu Glu His Glu Asp Ile Asp Thr Ser Ala Asp

Ala Val Glu Asp Leu Thr Glu Ala Glu Trp Glu Asp Leu Thr Gln Gln

Tyr Tyr Ser Leu Val His Gly Asp Ala Phe Ile Ser Asn Ser Arg Asn 100 105

Tyr Phe Ser Gln Cys Gln Ala Leu Leu Asn Arg Ile Thr Ser Val Asn 115 120 125

Pro Gln Thr Asp Ile Asp Gly Leu Arg Asn Ile Trp Ile Ile Lys Pro 130 135

Ala Ala Lys Ser Arg Gly Arg Asp Ile Val Cys Met Asp Arg Val Glu 145 150

Glu Ile Leu Glu Leu Ala Ala Ala Asp His Pro Leu Ser Arg Asp Asn 165

Lys Trp Val Val Gln Lys Tyr Ile Glu Thr Pro Leu Leu Ile Cys Asp 185

Thr	Lys	Phe 195	Asp	Ile	Arg	Gln	Trp 200	Phe	Leu	Val	Thr	Asp 205	Trp	Asn	Pro
Leu	Thr 210	Ile	Trp	Phe	Tyr	Lys 215	Glu	Ser	Tyr	Leu	Arg 220	Phe	Ser	Thr	Gln
Arg 225	Phe	Ser	Leu	Asp	Lys 230	Leu	Asp	Ser	Ala	Ile 235	His	Leu	Cys	Asn	Asn 240
Ala	Val	Gln	Lys	Tyr 245	Leu	Lys	Asn	Asp	Val 250	Gly	Arg	Ser	Pro	Leu 255	Leu
Pro	Ala	His	Asn 260	Met	Trp	Thr	Ser	Thr 265	Arg	Phe	Gln	Glu	Tyr 270	Leu	Gln
Arg	Gln	Gly 275	Arg	Gly	Ala	Val	Trp 280	Gly	Ser	Val	Ile	Tyr 285	Pro	Ser	Met
Lys	Lys 290	Ala	Ile	Ala	His	Ala 295	Met	Lys	Val	Ala	Gln 300	Asp	His	Val	Glu
Pro 305	Arg	Lys	Asn	Ser	Phe 310	Glu	Leu	Tyr	Gly	Ala 315	Asp	Phe	Val	Leu	Gly 320
Arg	Asp	Phe	Arg	Pro 325	Trp	Leu	Ile	Glu	Ile 330	Asn	Ser	Ser	Pro	Thr 335	Met
His	Pro	Ser	Thr 340	Pro	Val	Thr	Ala	Gln 345	Leu	Cys	Ala	Gln	Val 350	Gln	Glu
Asp	Thr	Ile 355	Lys	Val	Ala	Val	Asp 360	Arg	Ser	Cys	Asp	Ile 365	Gly	Asn	Phe
Glu	Leu 370	Leu	Trp	Arg	Gln	Pro 375	Val	Val	Glu	Pro	Pro 380	Pro	Phe	Ser	Gly
Ser 385	Asp	Leu	Cys	Val	Ala 390	Gly	Val	Ser	Val	Arg 395	Arg	Ala	Arg	Arg	Gln 400
Val	Leu	Pro	Val	Cys 405	Asn	Leu	Lys	Ala	Ser 410	Ala	Ser	Leu	Leu	Asp 415	Ala

Gln	Pro	Leu	Lys 420	Ala	Arg	Gly	Pro	Ser 425	Ala	Met	Pro	Asp	Pro 430	Ala	Gln	
Gly	Pro	Pro 435	Ser	Pro	Ala	Leu	Gln 440	Arg	Asp	Leu	Gly	Leu 445	Lys	Glu	Glu	
Lys	Gly 450	Leu	Pro	Leu	Ala	Leu 455	Leu	Ala	Pro	Leu	Arg 460	Gly	Ala	Ala	Glu	
Ser 465	Gly	Gly	Ala	Ala	Gln 470	Pro	Thr	Arg	Thr	Lys 475	Ala	Ala	Gly	Lys	Val 480	
Glu	Leu	Pro	Ala	Cys 485	Pro	Cys	Arg	His	Val 490	Asp	Ser	Gln	Ala	Pro 495	Asn	
Thr	Gly	Val	Pro 500	Val	Ala	Gln	Pro	Ala 505	Lys	Ser	Trp	Asp	Pro 510	Asn	Gln	
Leu	Asn	Ala 515	His	Pro	Leu	Glu	Pro 520	Val	Leu	Arg	Gly	Leu 525	Lys	Thr	Ala	
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		cga Arg														96
		gct Ala 35														144
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<211> 242

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<213> Homo sapiens

<400> 4

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215

210

220

Val Ala Val Asp Arg Ser Cys Asp Ile Gly Asn Phe Glu Leu Leu Trp 225 230 235 240

Arg Gln

<210> 5

<211> 292

<212> PRT

<213> Homo sapiens

<400> 5

Met Glu Gly Asp Arg Asn Phe Trp Ile Val Lys Pro Gly Ala Lys Ser

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Arg Gly Arg Gly Ile Met Cys Met Asp His Leu Glu Glu Met Leu Lys 20 25 30

Leu Val Asn Gly Asn Pro Val Val Met Lys Asp Gly Lys Trp Val Val 35 40 45

Gln Lys Tyr Ile Glu Arg Pro Leu Leu Ile Phe Gly Thr Lys Phe Asp 50 55 60

Leu Arg Gln Trp Phe Leu Val Thr Asp Trp Asn Pro Leu Thr Val Trp 65 70 75 80

Phe Tyr Arg Asp Ser Tyr Ile Arg Phe Ser Thr Gln Pro Phe Ser Leu 85 90 95

Lys Asn Leu Asp Asn Ser Val His Leu Cys Asn Asn Ser Ile Gln Lys
100 105 110

His Leu Glu Asn Ser Cys His Arg His Pro Leu Leu Pro Pro Asp Asn 115 120 125

Met Trp Ser Ser Gln Arg Phe Gln Ala His Leu Gln Glu Met Gly Ala 130 135 140

Pro Asn Ala Trp Ser Thr Ile Ile Val Pro Gly Met Lys Asp Ala Val 145 150 155 160

Ile His Ala Leu Gln Thr Ser Gln Asp Thr Val Gln Cys Arg Lys Ala 165 170 175 Ser Phe Glu Leu Tyr Gly Ala Asp Phe Val Phe Gly Glu Asp Phe Gln 180 185 190

Pro Trp Leu Ile Glu Ile Asn Ala Ser Pro Thr Met Ala Pro Ser Thr 195 200 205

Ala Val Thr Ala Arg Leu Cys Ala Gly Val Gln Ala Asp Thr Leu Arg 210 215 220

Val Val Ile Asp Arg Met Leu Asp Arg Asn Cys Asp Thr Gly Ala Phe 225 230 235 240

Glu Leu Ile Tyr Lys Gln Pro Val Thr Thr Ser Pro Ala Ser Thr Pro 245 250 255

Arg Pro Ser Cys Leu Leu Pro Met Tyr Ser Asp Thr Arg Ala Arg Ser 260 265 270

Ser Asp Asp Ser Thr Ala Ser Trp Trp Ala Leu Arg Pro Cys Arg Pro 275 280 285

Gln Ala Arg Pro 290

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<211> 379

<212> PRT

<213> Homo sapiens

<400> 6

Met Tyr Thr Phe Val Val Arg Asp Glu Asn Ser Ser Val Tyr Ala Glu 1 5 10 15

Val Ser Arg Leu Leu Leu Ala Thr Gly His Trp Lys Arg Leu Arg Arg 20 25 30

Asp Asn Pro Arg Phe Asn Leu Met Leu Gly Glu Arg Asn Arg Leu Pro 35 40 45

Phe Gly Arg Leu Gly His Glu Pro Gly Leu Met Gln Leu Val Asn Tyr 50 55 60

Tyr Arg Gly Ala Asp Lys Leu Cys Arg Lys Ala Ser Leu Val Lys Leu Ile Lys Thr Ser Pro Glu Leu Ala Glu Ser Cys Thr Trp Phe Pro Glu Ser Tyr Val Ile Tyr Pro Thr Asn Leu Lys Thr Pro Val Ala Pro Ala Gln Asn Gly Ile His Pro Pro Ile His Ser Ser Arg Thr Asp Glu Arg Glu Phe Phe Leu Thr Ser Tyr Asn Lys Lys Lys Glu Asp Gly Glu Gly Asn Val Trp Ile Ala Lys Ser Ser Ala Gly Ala Lys Gly Glu Gly Ile Leu Ile Ser Ser Glu Ala Thr Glu Leu Leu Asp Phe Ile Asp Asn Gln Gly Gln Val His Val Ile Gln Lys Tyr Leu Glu Arg Pro Leu Leu Leu Glu Pro Gly His Arg Lys Phe Asp Ile Arg Ser Trp Val Leu Val Asp His Gln Tyr Asn Ile Tyr Leu Tyr Arg Glu Gly Val Leu Arg Thr Ala Ser Glu Pro Tyr His Thr Asp Asn Phe Gln Asp Lys Thr Cys His Leu Thr Asn His Cys Ile Gln Lys Glu Tyr Ser Lys Asn Tyr Gly Lys Tyr Glu Glu Gly Asn Glu Met Phe Phe Glu Glu Phe Asn Gln Tyr Leu Thr Ser Ala Leu Asn Ile Thr Leu Glu Ser Ser Ile Leu Leu Gln Ile Lys His Ile Ile Arq Ser Cys Leu Leu Ser Val Glu Pro Ala Ile Ser Thr

290 295 300

Arg His Leu Pro Tyr Gln Ser Phe Gln Leu Phe Gly Phe Asp Phe Met

Val Asp Glu Asp Leu Lys Val Trp Leu Ile Glu Val Asn Gly Ala Pro

Ala Cys Ala Gln Lys Leu Tyr Ala Glu Leu Cys Gln Gly Ile Val Asp

Ile Ala Ile Ala Ser Val Phe Pro Pro Pro Asp Ala Glu Gln Gln 360

Gln Gln Pro Pro Pro Ala Ala Phe Ile Lys Leu 375

<210> 7 <211> 352 <212> PRT

<213> Homo sapiens

<400> 7

Met Asp Ile Asp Lys Asp Leu Glu Ala Pro Leu Tyr Leu Thr Pro Glu 10

Gly Trp Ser Leu Phe Leu Gln Arg Tyr Tyr Gln Val Val His Glu Gly 20

Ala Glu Leu Arg His Leu Asp Thr Gln Val Gln Arg Cys Glu Asp Ile

Leu Gln Gln Leu Gln Ala Val Val Pro Gln Ile Asp Met Glu Gly Asp 50 55

Arg Asn Ile Trp Ile Val Lys Pro Gly Ala Lys Ser Arg Gly Arg Gly 70

Ile Met Cys Met Asp His Leu Glu Glu Met Leu Lys Leu Val Asn Gly 85

Asn Pro Val Val Met Lys Asp Gly Lys Trp Val Val Gln Lys Tyr Ile 100 105

Glu Arg Pro Leu Leu Ile Phe Gly Thr Lys Phe Asp Leu Arg Gln Trp 115 120 Phe Leu Val Thr Asp Trp Asn Pro Leu Thr Val Trp Phe Tyr Arg Asp 135 140 Ser Tyr Ile Arg Phe Ser Thr Gln Pro Phe Ser Leu Lys Asn Leu Asp 150 155 Asn Ser Val His Leu Cys Asn Asn Ser Ile Gln Lys His Leu Glu Asn 170 Ser Cys His Arg His Pro Leu Leu Pro Pro Asp Asn Met Trp Ser Ser Gln Arg Phe Gln Ala His Leu Gln Glu Met Gly Ala Pro Asn Ala Trp 200 Ser Thr Ile Ile Val Pro Gly Met Lys Asp Ala Val Ile His Ala Leu 215 Gln Thr Ser Gln Asp Thr Val Gln Cys Arg Lys Ala Ser Phe Glu Leu Tyr Gly Ala Asp Phe Val Phe Gly Glu Asp Phe Gln Pro Trp Leu Ile 245 250 Glu Ile Asn Ala Ser Pro Thr Met Ala Pro Ser Thr Ala Val Thr Ala 260 265 Arg Leu Cys Ala Gly Val Gln Ala Asp Thr Leu Arg Val Val Ile Asp 280 Arg Met Leu Asp Arg Asn Cys Asp Thr Gly Ala Phe Glu Leu Ile Tyr Lys Gln Pro Val Thr Thr Ser Pro Ala Ser Thr Pro Arg Pro Ser Cys 310 Leu Leu Pro Met Tyr Ser Asp Thr Arg Ala Arg Ser Ser Asp Asp Ser 325 330

Thr Ala Ser Trp Trp Ala Leu Arg Pro Cys Arg Pro Gln Ala Arg Pro 340 345 350

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<211> 423

<212> PRT

<213> Homo sapiens

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Asp Trp Asn Phe Tyr Trp Met Ser Val Gln Thr Ile Arg Asn Val Phe 35 40 45

Ser Val Glu Ala Gly Tyr Arg Leu Ser Asp Asp Gln Ile Val Asn His 50 55 60

Phe Pro Asn His Tyr Glu Leu Thr Arg Lys Asp Leu Met Val Lys Asn 65 70 75 80

Ile Lys Arg Tyr Arg Lys Glu Leu Glu Lys Glu Gly Ser Pro Leu Ala 85 90 95

Glu Lys Asp Glu Asn Gly Lys Tyr Leu Tyr Leu Asp Phe Val Pro Val

Thr Tyr Met Leu Pro Ala Asp Tyr Asn Leu Phe Val Glu Glu Phe Arg 115 120 125

Lys Ser Pro Ser Ser Thr Trp Ile Met Lys Pro Cys Gly Lys Ala Gln 130 135 140

Gly Lys Gly Ile Phe Leu Ile Asn Lys Leu Ser Gln Ile Lys Lys Trp 145 150 155 160

Ser Arg Asp Ser Lys Thr Ser Ser Phe Val Ser Gln Ser Asn Lys Glu 165 170 175

Ala Tyr Val Ile Ser Leu Tyr Ile Asn Asn Pro Leu Leu Ile Gly Gly
180 185 190

Arg Lys Phe Asp Leu Arg Leu Tyr Val Leu Val Ser Thr Tyr Arg Pro Leu Arg Cys Tyr Met Tyr Lys Leu Gly Phe Cys Arg Phe Cys Thr Val Lys Tyr Thr Pro Ser Thr Ser Glu Leu Asp Asn Met Phe Val His Leu Thr Asn Val Ala Ile Gln Lys His Gly Glu Asp Tyr Asn His Ile His Gly Gly Lys Trp Thr Val Ser Asn Leu Arg Leu Tyr Leu Glu Ser Thr Arg Gly Lys Glu Val Thr Ser Lys Leu Phe Asp Glu Ile His Trp Ile Ile Val Gln Ser Leu Lys Ala Val Ala Pro Val Met Asn Asn Asp Lys His Cys Phe Glu Cys Tyr Gly Tyr Asp Ile Ile Asp Asp Lys Leu Lys Pro Trp Leu Ile Glu Val Asn Ala Ser Pro Ser Leu Thr Ser Ser Thr Ala Asn Asp Arg Ile Leu Lys Tyr Asn Leu Ile Asn Asp Thr Leu Asn Ile Ala Val Pro Asn Gly Glu Ile Pro Asp Cys Lys Trp Asn Lys Ser Pro Pro Lys Glu Val Leu Gly Asn Tyr Glu Ile Leu Tyr Asp Glu Glu Leu Ala Gln Gly Asp Gly Ala Asp Arg Glu Leu Arg Ser Arg Gln Gly Gln Ser Leu Gly Pro Arg Ala Gly Arg Ser Arg Asp Ser Gly Arg

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<212> DNA

<213> Homo sapiens

<400> 9

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<212> DNA

<213> Homo sapiens

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<212> DNA

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- Ser Asp Leu Ser Ser Arg Gln Asp Ala Glu Asn Ala Glu Ala Lys Leu 35 40 45
- Arg Gly Leu Pro Gly Gln Leu Val Asp Ile Ala Cys Lys Val Cys Gln 50 55 60
- Ala Tyr Leu Gly Gln Leu Glu His Glu Asp Ile Asp Thr Ser Ala Asp 65 70 75 80
- Ala Val Glu Asp Leu Thr Glu Ala Glu Trp Glu Asp Leu Thr Gln Gln 85 90 95
- Tyr Tyr Ser Leu Val His Gly Asp Ala Phe Ile Ser Asn Ser Arg Asn 100 105 110
- Tyr Phe Ser Gln Cys Gln Ala Leu Leu Asn Arg Ile Thr Ser Val Asn 115 120 125
- Pro Gln Thr Asp Ile Asp Gly Leu Arg Asn Ile Trp Ile Ile Lys Pro 130 135 140
- Ala Ala Lys Ser Arg Gly Arg Asp Ile Val Cys Met Asp Arg Val Glu 145 150 155 160
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Thr Gly Val Pro Val Ala Gln Pro Ala Lys Ser Trp Asp Pro Asn Gln 500 505 510

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Leu Asn Arg Ile Thr Ser Val Asn Pro Gln Thr Asp Ile Asp Gly Leu 50 60

Arg Asn Ile Trp Ile Ile Lys Pro Ala Ala Lys Ser Arg Gly Arg Asp 65 70 75 80

Ile Val Cys Met Asp Arg Val Glu Glu Ile Leu Glu Leu Ala Ala Ala 85 90 95

Asp His Pro Leu Ser Arg Asp Asn Lys Trp Val Val Gln Lys Tyr Ile 100 105 110

Glu Thr Pro Leu Leu Ile Cys Asp Thr Lys Phe Asp Ile Arg Gln Trp
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Phe Leu Val Thr Asp Trp Asn Pro Leu Thr Ile Trp Phe Tyr Lys Glu 130 135 140

Ser Tyr Leu Arg Phe Ser Thr Gln Arg Phe Ser Leu Asp Lys Leu Asp 145 150 155 160

Ser Ala Ile His Leu Cys Asn Asn Ala Val Gln Lys Tyr Leu Lys Asn 165 170 175

Asp Val Gly Arg Ser Pro Leu Leu Pro Ala His Asn Met Trp Thr Ser 180 185 190

Thr Arg Phe Gln Glu Tyr Leu Gln Arg Gln Gly Arg Gly Ala Val Trp
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Gly Ser Val Ile Tyr Pro Ser Met Lys Lys Ala Ile Ala His Ala Met 210 225 220

Lys Val Ala Gln Asp His Val Glu Pro Arg Lys Asn Ser Phe Glu Leu 225 230 235 240

Tyr Gly Ala Asp Phe Val Leu Gly Arg Asp Phe Arg Pro Trp Leu Ile 245 250 255

Glu Ile Asn Ser Ser Pro Thr Met His Pro Ser Thr Pro Val Thr Ala 260 265 270

Gln Leu Cys Ala Gln Val Gln Glu Asp Thr Ile Lys Val Ala Val Asp 275 280 285

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Asn

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Asp Tyr Phe Glu Lys Arg Glu Arg Glu Gly Gln Asp Asn Thr Trp Ile 65 70 75 80

Val Lys Pro Ser Ala Ser Ala Arg Gly Arg Gly Ile Arg Ile Thr Asn 85 90 95

Lys Leu Ser Gln Ile Pro Lys Trp Val Asp Asp Phe Lys Asp Asn Pro 100 105 110

Phe Val Ser Gln Ile Gln Arg Arg Pro Leu Val Val Gln Lys Tyr Ile 115 120 125

Glu Arg Pro Leu Leu Ile Asp Gly Glu Asp Val Gly Lys Arg Lys Phe 130 135 140

Asp Leu Arg Leu Tyr Val Leu Val Thr Ser Val Asp Pro Leu Arg Ile 145 150 155 160

Tyr Val Tyr Arg Glu Gly Leu Leu Arg Phe Ala Ser Val Lys Tyr Ser 165 170 175

Pro Leu Ser Asp Leu Asp Asp Val Glu Met His Leu Thr Asn Tyr Ser 180 185 190

Ile Gln Lys Lys Ser Ser Asn Tyr Ser Arg Leu Asn Glu Asp Tyr Asn 195 200 205

Glu Pro Val Gly His Lys Trp Ser Leu Gln Asn Leu Trp Leu Tyr Leu 210 215 220

Glu Glu Met Gly Ile Asp Lys Glu Glu Ile Trp Leu Gln Ile Glu Ser 225 230 235 240

Ile Ile Lys Thr Ile Leu Ala Ala Glu Ile Val Glu Ala Ser Arg 245 250 255

Leu Asn Val Ala Pro Leu Tyr Asn Cys Phe Glu Leu Tyr Gly Phe Asp 260 265 270

Ile Met Leu Lys Trp Asp Asp Glu Asn Leu Lys Pro Trp Leu Leu 275 280 285

Glu Val Asn Ala Ser Pro Ser Leu His Ser Thr Thr Lys Leu Asp Ala 290 295 300

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